



Sequence Listing - PatentIn.ST25
SEQUENCE LISTING

<110> GeneType A.G.
Michael, Simons J.

<120> Intron Sequence Analysis Method for Detection of Adjacent and Remote Locus
Alleles as Haplotypes

<130> 21401-7002

<140> 10/005,626

<141> 2001-12-03

<150> US 10/005,626

<151> 2001-12-03

<150> US 09/070,497

<151> 1998-04-30

<150> US 08/682,054

<151> 1996-07-16

<150> US 07/949,652

<151> 1992-09-23

<150> US 07/551,239

<151> 1990-07-11

<150> US 07/465,863

<151> 1990-01-16

<150> US 07/405,499

<151> 1989-09-11

<150> US 07/398,217

<151> 1989-08-25

<160> 78

<170> PatentIn version 3.1

<210> 1

<211> 911

<212> DNA

<213> Homo sapiens

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tctacacgtc cattcccagg gcgagctcac tgtctggcag caagttcccc atggtcgagt 180
ttccctgtac aagagtccaa ggggagaggt aagtgtcctt tattttgctg gatgtagttt 240
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gggattccag gagaagtga ggggaagggg ctgggagcag cctgggggtc tctccctggt 360
ttccacagac agatccttgg ccaggactca ggcacacagt gtgacaaaga tgcttggtgt 420
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Sequence Listing - PatentIn.ST25

| | | | | | | | |
|-------------|-------------|------------|------------|------------|------------|------------|-----|
| ccaagggg | cg | tgtctgcact | ggggaggcgc | cgcgttgagg | attctccact | cccctgagtt | 540 |
| cacttcttct | cccaacctgc | gtcgggtcct | tcttcctgaa | tactcatgac | gcgtccccaa | | 600 |
| ttcccaactcc | cattgggtgt | cggtttctag | aagccaatca | gcgtctccgc | agtcccggtt | | 660 |
| ctaaagtccc | cagtcaccca | cccggactca | gattctcccc | agacgccgag | atgcgggtca | | 720 |
| tggcgccccg | aaccctcatc | ctgctgctct | cgggagccct | ggccctgacc | gagacctggg | | 780 |
| cctgtgagtg | cgggggttggg | agggaaacgg | cctctgcgga | gaggaacgag | gtgcccggcc | | 840 |
| ggcaggcgca | ggacccgggg | agccgcgcag | ggaggagggt | cgggcgggtc | tcagcccctc | | 900 |
| ctcgccccca | g | | | | | | 911 |

<210> 2
 <211> 587
 <212> DNA
 <213> Homo sapiens

| | |
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| <400> 2 | |
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| cgaggagggg | aggaaaatgg gatcagcgct agaatatcgc cctccctgaa atggagaatg 120 |
| ggatgagttt | tcctgagttt cctctgaggg ccccctctgc tctctaggac aattaaggga 180 |
| tgaagtcctt | gaggaaatgg aggggaagac agtccctgga atactgatca ggggtcccct 240 |
| ttgaccactt | tgaccactgc agcagctgtg gtcaggctgc tgacctttct ctcaggcctt 300 |
| gttctctgcc | tcacgttcaa tgtgtttgaa ggtttgattc cagcttttct gagtccttcg 360 |
| gcctccactc | aggtcaggac cagaagtcgc tgttcctccc tcagagacta gaactttcca 420 |
| atgaatagga | gattatccca ggtgcctgtg tccaggctgg cgtctgggtt ctgtgcccc 480 |
| ttccccaccc | cagggtgtcct gtccattctc aggatgggtca catgggcgct gttggagtgt 540 |
| cgcaagagag | atacaaagtg tctgaatttt ctgactcttc ccgtcag 587 |

<210> 3
 <211> 913
 <212> DNA
 <213> Homo sapiens

| | |
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| gaatctctac | ctggtgcttt cagacaacac ttcaccaggt ttaaagagaa aactcctgac 120 |
| tctacacgtc | cattcccagg gcgagctcac tgtctggcat caagttcccc atggtgagtt 180 |
| tccctgtaca | agagtccaag gggagaggta agtgtccttt attttgctgg atgtagttta 240 |
| atattacctg | aggtaaggta acggaaagag tggggaggca gggagtccag ttcagggacg 300 |
| gggattccag | gagaagtga ggggaagggg ctggcgagc ctgggggtct ctccctgggt 360 |
| tccacagaca | gatccttccg gaggactcag gcacacagtg tgacaaagat gcttggtgta 420 |

Sequence Listing - PatentIn.ST25

| | |
|--|-----|
| ggagaagagg gatcaggacg aagtcccaga cccgggcggg gttctcaggg tctcaggctc | 480 |
| caaggggCGT gtctgcactg gggaggcgcc gcgttgagga ttctccactc ccctgagttt | 540 |
| cactttcttct cccaacctgc gacgggtcct tcttctgaa tactcatgac gcgtcccca | 600 |
| ttcccaactcc attgggtgtc gggttctaga gaagccaatc accgtctccg cagtcccggt | 660 |
| tctaaagtcc ccagtcaccc acccggaactc ggattctccc cagacgccga gatgcgggtc | 720 |
| atggcgcccc gaaccctcat cctgctgctc tcgggagccc tggccctgac cgagacctgg | 780 |
| gcctgtgagt gcgggggttg gagggaaacg gcctctgcgg agaggagcga gggggccgcc | 840 |
| cggcgagggc caggaccgga gagccgcgc agggaggagg gtcgggcggg tctcagcccc | 900 |
| tcctctcccc cag | 913 |

<210> 4
 <211> 588
 <212> DNA
 <213> Homo sapiens

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| cgaggagggg aggaaaatgg gatcagcgct agaatatcgc cctccctgaa atggagaatg | 120 |
| ggatgagttt tcctgagttt cctctgaggg cccctctgc tctctaggac aattaaggga | 180 |
| tgaagtcctt gaggaaatgg aggggaagac agtccctgga atactgatca ggggtcccct | 240 |
| ttgaccactt tgaccactgc agcagctgtg gtcaggctgc tgacctttct ctcaggcctt | 300 |
| gttctctgcc tcacgttcaa tgtgtttgaa ggtttgattc cagcttttct gagtcttctg | 360 |
| gcctccactc aggtcaggac cagaagtcgc tgttctccc tcagagacta gaactttcca | 420 |
| atgaatagga gattatcca ggtgcctgtg tccaggctgg cgtctgggtt ctgtgcccc | 480 |
| ttccccacc caggtgtcct gtccattctc aggatagtca catgggcgct gttggagtgt | 540 |
| cgcaagagag atacaaagtg tctgaatttt ctgactcttc ccgtgcag | 588 |

<210> 5
 <211> 366
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (75)..(76)
 <223> "N" is an unidentified nucleotide

| | |
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| <400> 5 aatctgcgtc gggtccttct tcctgaatga ctcatgacgc gtccccaatt cccactcca | 60 |
| ttgggtgtcg gaccnntcta gaaggccggt cagcgtctcc gcagtcccgg ttctgaagtc | 120 |

Sequence Listing - PatentIn.ST25

| | |
|--|-----|
| cccagtcacc caccgagact cagattctcc ccagacgccg agatgcgggt catggcgccc | 180 |
| cggaccctca tcctgctgct ctcgggagcc ctggccctga ccgagacctg ggccggtgag | 240 |
| tgcgggggtg ggaggggaatc ggcctcttgc ggagaggagc gaggggcccg cccggcggag | 300 |
| ggcgcaggac ccggggagcc gcgcaggag gagggtcggg cgggtctcag cccctcctcg | 360 |
| ccccag | 366 |

<210> 6
 <211> 578
 <212> DNA
 <213> Homo sapiens

| | |
|---|-----|
| <400> 6 | |
| gtaccagggg cagtgggagc cttccccatc tcctgtagat ctcccgggat ggcctccac | 60 |
| gaggagggga ggaaatggg atcagcgcta gaatatcgcc ctccctgaaa tggagaatgg | 120 |
| gatgagtttt cctgagtttc ctctgagggc cccctctgct ctctgaggac aattaaggga | 180 |
| tgaagtcctt gaagaaatgg aggggaagac agtccctaga atactgatca ggggtcccct | 240 |
| ttgaccactg cagcagctgt ggtcaggctg ctgacctttc tctcaggcct tgttctctgc | 300 |
| ctcacgctca atgtgtttga aggtttgatt ccagcttttc tgagtccttc ggcctccact | 360 |
| caggtcagga ccagaagtcg ctgttcctcc ctcagagact agaactttcc aatgaatagg | 420 |
| agattatccc aggtgcctgt gtccaggctg gcgtctgggt tctgtgcccc cttccccacc | 480 |
| ccaggtgtcc tgtccgttct caggatggtc acatgggcgc tgttgagtg tgcgaagaga | 540 |
| gatacaaagt gtctgaattt tctgactctt cccgtcag | 578 |

<210> 7
 <211> 717
 <212> DNA
 <213> Homo sapiens

| | |
|---|-----|
| <400> 7 | |
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| agaggtaagg agtgagaggc agggagtcca gttcaggggac agggattcca ggaggagaag | 120 |
| tgaaggggaa gcgggtgggc gccactgggg gtctctccct ggtttccaca gacagatcct | 180 |
| tgtgccggac tcaggcagac agtgtgacaa agaggctggg taggagaag agggatcagg | 240 |
| acgaacgtcc aaggccccgg gcgcgggtctc agggctctcag gctccgagag ccttgtctgc | 300 |
| attggggagg cgcacagttg gggttcccca ctcccacgag tttcatttct tctcccaacc | 360 |
| tatgtcgggt ccttcttcca ggatactcgt gacgcgtccc catttccact cccattgggt | 420 |
| gtcgggtgtc tagagaagcc aatcagtgtc gccgggggtc cagttctaaa gtccccacgc | 480 |
| accacccgg actcagaatc tcctcagacg ccgagatgcg ggtcacggcg ccccgaaccc | 540 |
| tcctcctgct gctctggggg gcagtggccc tgaccgagac ctgggctggg gagtgcgggg | 600 |

Sequence Listing - PatentIn.ST25

| | | | | | | |
|------------|------------|------------|------------|------------|-----------|-----|
| tcaggcaggg | aaatggcctc | tgtggggagg | agcgagggga | cgaggcggg | ggcgaggac | 660 |
| ccggggagcc | gcgccgggag | gagggtcggg | cggtgtctag | cccctcctcg | ccccag | 717 |

<210> 8
 <211> 575
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|------------|------------|------------|-------------|-------------|-----|
| <400> 8 | | | | | | |
| gtaccagggg | cagtggggag | ccttcccat | ctcctatagg | tcgccgggga | tggcctccca | 60 |
| cgagaagagg | aggaaaatgg | gatcagcgct | agaatgtcgc | cctcccttga | atggagaatg | 120 |
| gcatgagttt | tcctgagttt | cctctgaggg | ccccctcttc | tctctaggac | aattaaggga | 180 |
| tgacgtctct | gaggaaatgg | aggggaagac | agtccctaga | atactgatca | gggggtcccct | 240 |
| ttgacccttg | cagcagcctt | gggaaccgtg | acttttcttc | tcaggccttg | ttcacagcct | 300 |
| cacactcagt | gtgtttgggg | ctctgattcc | agcacttctg | agtcacttta | cctccactca | 360 |
| gatcaggagc | agaagtcctt | gttccccgct | cagagactcg | aactttccaa | tgaataggag | 420 |
| attatcccag | gtgcctgcgt | ccaggctggg | gtctgggttc | tgtgcccctt | ccccaccca | 480 |
| gggtgtctgt | ccattctcag | gctggtcaca | tgggtggtcc | taggggtgtcc | catgagagat | 540 |
| gcaaagcgcc | tgaattttct | gactcttccc | atcag | | | 575 |

<210> 9
 <211> 289
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
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| <400> 9 | | | | | | |
| tctagagaag | ccaatcagtg | tcgccggggg | cccagttcta | aagtccccac | gcacccaccc | 60 |
| ggactcagaa | tctcctcaga | cgccgagatg | cgggtcacgg | cgccccgaac | cgctctcttg | 120 |
| ctgctctggg | gggcagtggc | cctgaccgag | acctggggcg | gtgagtgcgg | ggtcggggagg | 180 |
| gaaatggcct | ctgtggggag | gagcgagggg | accgcaggcg | ggggcgagg | acctgaggag | 240 |
| ccgcgcccgg | aggaggggtcg | ggcggtcttc | agccccctct | cgccccag | | 289 |

<210> 10
 <211> 575
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-----|
| <400> 10 | | | | | | |
| gtaccagggg | cagtggggag | ccttcccat | ctcctatagg | tcgccgggga | tggcctccca | 60 |
| cgagaagagg | aggaaaatgg | gatcagcgct | agaatgtcgc | cctcccttga | atggagaatg | 120 |
| gcatgagttt | tcctgagttt | cctctgaggg | ccccctcttc | tctctaggac | aattaaggga | 180 |
| tgacgtctct | gaggaaatgg | aggggaagac | agtccctaga | atactgatca | gggggtcccct | 240 |

Sequence Listing - PatentIn.ST25

| | |
|---|-----|
| ttgaccctg cagcagcctt gggaaaccgtg acttttctc tcaggccttg ttctctgcct | 300 |
| cacactcagt gtgtttgggg ctctgattcc agcacttctg agtcacttta cctccactca | 360 |
| gatcaggagc agaagtcctt gttccccgtc cagagactcg aactttccaa tcaataggag | 420 |
| attatcccag gtgcctgcgt ccaggctggt gtctgggttc tgtgccccct cccacacca | 480 |
| ggtgtcctgt ccattctcag gctggtcaca tgggtggtcc tagggtgtcc catgagagat | 540 |
| gcaaagcgcc tgaattttct gactcttccc atcag | 575 |

<210> 11
 <211> 728
 <212> DNA
 <213> Homo sapiens

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| tggacaggta aggagtggga gtcagggagt ccagttccag ggacagagat tacgggataa | 120 |
| aaagtgaaag gagagggacg gggcccatgc cgaggggttc tcccttgttt ctgagacagc | 180 |
| tcttgggcca agactcaggg agacattgag acagagcgct tggcacagaa gcagaggggt | 240 |
| cagggcgaag tccagggccc caggcggttg ctctcagggc ctgaggcccc gaagggcggt | 300 |
| gtatggattg gggagtccca gccttgggga ttccccaact ccgcagtttc ttttctcct | 360 |
| ctcccaacct atgtagggtc cttcttctctg gatactcacg acgcggacct agttctcact | 420 |
| cccattgggt gtcgggtttc cagagaagcc aatcagtgtc gtcgcggtcg cggttctaaa | 480 |
| gtccgcacgc acccaccggg actcagattc tcccagacg ccgaggatgg ccgtcatggc | 540 |
| gccccgaacc ctgctcctgc tactctcggg ggctctggcc ctgaccaga cctgggcggg | 600 |
| tgagtgcggg gtcgggaggg aaacggcctc tgtggggaga agcaacgggc cgcctggcgg | 660 |
| gggcgcagga cccgggaagc cgcgccggga ggagggtcgg gcgggtctca gccactcctc | 720 |
| gtccccag | 728 |

<210> 12
 <211> 599
 <212> DNA
 <213> Homo sapiens

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| <400> 12 gtaccagggg ccacggggcg cctccctgat cgctttaga tctccgggc tggcctccca | 60 |
| caaggagggg agacaattgg gaccaactc agaatatcgc cctccctctg gtcctgaggg | 120 |
| agaggaatcc tcctgggttt ccagatcctg taccagagag tgactctgag gttccgcct | 180 |
| gctcttgac acaattaagg gataaaatct ctgaaggaat gacgggaaga cgatccctcg | 240 |
| aatactgatg agtgggtccc ttgacacac acaggcagca gccttgggccc cgtgactttt | 300 |

Sequence Listing - PatentIn.ST25

| | |
|---|-----|
| cctctcaggc cttgttctct gcttcacact caatgtgtgt gggggctga gtccagcact | 360 |
| tctgagtcct tcagcctcca ctgaggtcag gaccagaagt cgctgttccc tcttcaggga | 420 |
| ctagaatttc cacggaatag gagattatcc caggtgcctg tgtccaggct ggtgtctggg | 480 |
| ttctgtgctc ctttcccat cccaggtgtc ctgtccattc tcaagatagc cacatgtgtg | 540 |
| ctggaggagt gtcccatgac agatcgaaaa tgcctgaatg atctgactct tcctgacag | 599 |

<210> 13
 <211> 450
 <212> DNA
 <213> Homo sapiens

| | |
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| cttttctccc ctgctcccaa cctacgtagg gtccttcac ctggatactc acggacgcgg | 120 |
| accagttct cactccatt ggggtgtcggg ttccagaga agccaatcag tgtcgtcgct | 180 |
| gttctaaagc ccgcacgcac ccaccgggac tcagattctc cccagacgcc gaggatggtc | 240 |
| gtggagacca ggccgtcatg gcgccccgaa cctcctcct gctactctcg ggggccctgg | 300 |
| ccctgacca gacctgggcg ggtgagtgcg gggtcgggag ggaaccacgc ctctgcgggg | 360 |
| agaagcaagg ggcctcctgg cgggggcgca ggaccggggg agccgcgccg ggacgagggt | 420 |
| cgggcgggtc tcagccactg ctccccccag | 450 |

<210> 14
 <211> 576
 <212> DNA
 <213> Homo sapiens

| | |
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| aaggagggga gaccattggg acccacacta ggatatacc cttcctttgg ttctgaggga | 120 |
| gaggaattct tcttggtttc aggacctgga ccagagagtg actctgaggt ttcggcctgc | 180 |
| tcacaggcac aattaaggga taaatctctg aaggagtgc ggaagacga ttccttgat | 240 |
| tctggtgagt ggttcccttt ggcaccggcg acggccttgg gccctgact tttcctctca | 300 |
| ggccttggtc tctgcttcac actcaatgtg tgtgggggtc tgagtccagc acttctgagt | 360 |
| ccctcagcct cactcaggt caggaccaga agtcgtgtt ccttctcag ggaatagaag | 420 |
| attatcccag gtgcctgtgt ccaggctggg gtctgggttc tgtgtccct tccccatccc | 480 |
| gggtgtcctg tccattctca agatggccac atgcgtgctg gtggagtgtc ccatgacaga | 540 |
| tgcaaaatgc ctgaattttc tgactcttcc cgtcag | 576 |

<210> 15
 <211> 435

Sequence Listing - PatentIn.ST25

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (348)..(348)
<223> "N" is an unidentified nucleotide

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gttctcattc ccactaggtg tcgggtttct agagaagcca atcggtgccg ccgcgggtccc 180
ggttctaaag tccccacgca cccaccggga ctgagattct cccagacgc cgaggatgtc 240
gccgtcatgg cgccccgaac cctcctcctg ctgctctcag gggccctggc cctgacctag 300
acctgggagc gtgagtgcag ggtctgcagg gaaatggctg ggaggagnga gggggccgcc 360
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cctcctcgct ccag 435

<210> 16
<211> 569
<212> DNA
<213> Homo sapiens

<400> 16
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gaggaatcct cttgggtttc cagagagtga ctctgagggt ccgcctgctc tctgacacaa 180
ttaagggatg aaatctgtga ggaaatgaag ggaagacaat ccctggaata ctgatgagtg 240
gttccctttg aactggcag cagccttggg ccccgtagct tttcctctca ggccttggtc 300
tctgcttcac actcaatgtg cgtgggggtc tgagtcctca gcctccactc aggtcaggac 360
cagaagtcgc tgttccctct tcagggacta gaattttcca cggaatagga gattattcta 420
ggtgcctctg tctaggctgg tttctgggtt ctgtgctccc ttccccaccc taggcatacct 480
gtcaattctc aagatggcca catgcgtgct ggtggagtgt cccatgacag atgcaaaatg 540
cctgaatttt ctgactcttt tcccgtcag 569

<210> 17
<211> 442
<212> DNA
<213> Homo sapiens

<400> 17
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tcttttctcc ctgtcccaac ctatgtaggg tctttctcct ggatactcac gacgcggacc 120

Sequence Listing - PatentIn.ST25

| | |
|---|-----|
| cagttctcac tcccattggg tgtcggggtt cgagagaagc caatcaatgt cgtcgcggtc | 180 |
| gctgttctaa agtccgcacg caccacccgg gactcagatt ctccccagac gccgaggatg | 240 |
| gccgtcatgg ggccccgaac cctcgtcctg ctactctcgg gggccctggc cctgacccag | 300 |
| acctgggcag gtgagtgcgg ggtcgggagg gaaatcggcc ctctgcgggg agaagcaagg | 360 |
| ggccgcctg gcgggggagc aagacccggg aagccgcgcc gggaggaggg tcgggcgggt | 420 |
| ctcagccact cctcgtcccc ag | 442 |

<210> 18
 <211> 558
 <212> DNA
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| | |
|---|-----|
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| acaaggaggg gagacaattg ggaccaacac tagaatatcg ccctccctct ggtcttgagg | 120 |
| gagaggaatc ctctggggt tccagatcct gtaccagaga gtgactctga ggttccgccc | 180 |
| tgctctctga cacaattaag ggataaaatc tctgacggaa tgacggaaag acgatccctc | 240 |
| gaatactgat gactgggttc ctttgacacc ggcagcagcc ttgggaccgt gacttttctt | 300 |
| ctcaggcctt gttctctgct tcacactcaa tgtgtgtggg ggtctgagtc cagcacttct | 360 |
| gagtccctca gcctccactc aggtcaggac cagaagtcgc tgttccctct tcagggaata | 420 |
| gaagattatc ccagggcctg tgtccaagct ggtgtctggg ttctgtactc tcttccccgt | 480 |
| cccagggtgt ctgtccattc tcaagatggc cacatgcatg ctggtggagt gtcccatgac | 540 |
| aggtgcaaaa cccgtcag | 558 |

<210> 19
 <211> 806
 <212> DNA
 <213> Homo sapiens

| | |
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| <400> 19 | |
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| tttgttatta actgatgaaa gaattaagt aaagataaac cttaggaagc agagggaagt | 120 |
| taatctatga ctaagaaagt taagtactct gataactcat tcattccttc ttttgttcat | 180 |
| ttacattatt taatcacaag tctatgatgt gccaggctct caggaaatag tgaaaattgg | 240 |
| cacgcgatat tctgcccttg tgtagcacac accgtagtgg gaaagaagt cacttttaac | 300 |
| cggacaacta tcaacacgaa gcggggagga agcaggggct ggaaatgtcc acagactttg | 360 |
| caaagacaa agcccataat atctgaaagt cagtttcttc catcattttg tgtattaagg | 420 |
| ttctttattc ccctgttctc tgccttctg cttgtcatct tcatcatca gctgaccatg | 480 |

Sequence Listing - PatentIn.ST25

| | |
|---|-----|
| ttgcctctta cgggtgtaaac ttgtaccagt cttatgggtcc ctctgggcag tacagccatg | 540 |
| aatttgatgg agacgaggag ttctatgtgg acctggagag gaaggagact gtctggcagt | 600 |
| tgctctgtt cgcgagattt agaagatttg acccgcaatt tgcactgaca aacatcgctg | 660 |
| tgctaaaaca taacttgaac atcgtgatta aacgctccaa ctctaccgct gctaccaatg | 720 |
| gtatgtgtcc accattctgc ctttctttac tgatttatcc ctttatacca agtttcatta | 780 |
| ttttctttcc aagaggtccc cagatc | 806 |

<210> 20
 <211> 819
 <212> DNA
 <213> Homo sapiens

| | |
|--|-----|
| <400> 20 | |
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| tttgttatta accaatgaaa gaattaagtg aaagataaat cttaggaagc cagaggggaag | 120 |
| taaacctaat ttctgactaa gaaagctaaa tactatgata actcattcat tcttctttt | 180 |
| gttcaattac attatttaat cataagtcca tgacgtgccg ggcactcagg aaatagtaaa | 240 |
| aattggacat gcgatattct gcccttgtgt agcgcacact agagtgggaa agaaagtgca | 300 |
| cttttaactg gacaactacc aacatgaaga ggggaggaag caggggctgg aaatgtccac | 360 |
| agactgtgcc aaaaaatgaa gcccataata ttgaaagtc aggtctttcc atcattttgt | 420 |
| gtattaaggt tctttcttcc tctgttctcc gccttcctgc ttgtcatctt cactcatcag | 480 |
| ctgaccacgt tgcctcttgt ggtgtaaact tgtaccagtt ttacgggtccc tctggccagt | 540 |
| acacccatga atttgatgga gatgagcagt tctacgtgga cctggagagg aaggagactg | 600 |
| cctggcgggtg gcctgagttc agcaaatttg gaggttttga cccgcagggt gcactgagaa | 660 |
| acatggctgt ggcaaaacac aacttgaaca tcatgattaa acgctacaac tctaccgctg | 720 |
| ctaccaatgg tatgcgtcca ccattctgcc tctctttact taataagcta tccctccata | 780 |
| ccaaggttca ttattttctt cccaagaggt ccccagatc | 819 |

<210> 21
 <211> 815
 <212> DNA
 <213> Homo sapiens

| | |
|---|-----|
| <400> 21 | |
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| tttgttatta actgatgaaa gaattaagtg aaagatgaat cttaggaagc agaaggaagt | 120 |
| aaacctaatc tctgactaag aaagctaaat accataataa ctcatcatt ccttcttttg | 180 |
| ttcaattaca ttgatttaat cataagtccg tgatgtgccg ggcactcagg aaatagtaaa | 240 |
| aactggacat gtgatattct gcccttgtgt agcgcacatt atagtgggaa agaaagcgca | 300 |

Sequence Listing - PatentIn.ST25

| | |
|---|-----|
| attttaaccg gacaactacc aacaataaga gtggaggaag caggggttgg aaatgtccac | 360 |
| aggctgtgcc aaagatgaag cccgtaatat ttgaaagtca gttcttttca tcatcatttt | 420 |
| gtgtattaag gttctgtctt cccctgttct ctcaattcct gcttgtcatc ttcactcatc | 480 |
| agctgaccac gtcgcctctt atggtgtaaa cttgtaccag tcttacgggc cctctggcca | 540 |
| gtacacccat gaatttgatg gagatgagca gttctacgtg gacctgggga ggaaggagac | 600 |
| tgtctggtgt ttgcctgttc tcagacaatt tagaatttga cccgcaattt gcactgacaa | 660 |
| acatcgctgt cctaaaacat aacttgaaca gtctgattaa acgctccaac tctaccgtg | 720 |
| ctaccaatgg tatgtgtcaa caattctgcc cctctttact gatttatccc ttcataccaa | 780 |
| gtttcattat tttatttcca agagggtcccc agatc | 815 |

<210> 22
 <211> 1292
 <212> DNA
 <213> Homo sapiens

| | |
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| tccaacatag aagggaactga acctcaacgg gacttgggag ggtaaattcta ggcatgggaa | 120 |
| ggaaggtatt ttaccaggg accaagagaa tacgcgtgtc agaacgaggc caggcttaat | 180 |
| tcttgacct atctcgtcat tccgttgaac tctcagattt atgtggataa ctttatctct | 240 |
| gaggtatcca ggagcttcat gaaaaatggg atttcatgcg agaacgccct gatccctcta | 300 |
| agtgcagagg tgcattgtaa atcagccga ctgcctcttc gctgggttca caggctcagg | 360 |
| cagggaacagg gctttcctcc ctttcctgga tgtaggaagg cagattccag aagcccgcaa | 420 |
| agaaggcggg cagagctggg cagagccgcc gggaggatcc caggctctgga gcgccaggca | 480 |
| cgggcgggcg ggaactggag gtcgcgcggg cggttccaca gctccaggcc gggtcagggc | 540 |
| ggcggctgcg ggggcggccg ggctggggcc tgactgaccg gccggtgatt ccccgagag | 600 |
| gatttcgtgt accagtttaa gggcatgtgc tacttcacca acgggacgga gcgcgtgcgt | 660 |
| cttghtaacca gacacatcta taaccgagag gactacgcgc gcttcgacag cgacgtgggg | 720 |
| gtgtaccggg cgggtgacgc gcaggggagg cctgttgccg agtactggaa cagccagaag | 780 |
| gaagtcctgg agaggacccg ggcggagttg gacacggtgt gcagacacaa ctacgaggtg | 840 |
| gggtaccgcg ggatcctgca gaggagaggt gagcttcgtc gccctccgt gagcgcaccc | 900 |
| ttggccggga ccccgagtct ctgtgccggg agggcgatgg gggcgaggtc tctgaaatct | 960 |
| tgagcccagt tcattccacc ccagggaaag gaggcggcgg cgggggtggt gggggcagg | 1020 |
| gcatcgagg ggcggggacc tagggcagag cagggggaca agcagagttg gccaggctgc | 1080 |
| ctagtgtccc cccagcctc ctgcgtccgc ggcctcgtcc tctgctctgg acgtttctcg | 1140 |

Sequence Listing - PatentIn.ST25

| | |
|--|------|
| cctcgtgcct tatgcgtttg cctcctcgtg ccttaccttc gctaagcagt tctctctgcc | 1200 |
| cccagtgccc accctcttcc cctgcccgcc ggcctcgcta gcaactgcccc acccagcaag | 1260 |
| gcccacagtc gcgcattcgc cgcaggaagc tt | 1292 |

<210> 23
 <211> 1291
 <212> DNA
 <213> Homo sapiens

| | |
|---|------|
| <400> 23 aagcttgtgc tctttccatg aataaatgtc tctatctagg actcagaggt gtaggtcctt | 60 |
| tccttcatag aagggactga acctcttcgg gacttgggag ggtaaatcta ggcatgggaa | 120 |
| ggaaggtatt ttaccaggga accaagagaa tacgcgtgtc agaacgaggc caggcttaat | 180 |
| tcctggacct atctcgtcat tccgttgaac tctcagattt atgtggataa ctttatctct | 240 |
| gaggtatcca ggagcttcat gaaaaatggg atttcatgcg agaacgccct gatccctcta | 300 |
| agtgcagagg tgcattgtaa atcagccga ctgcctcttc gctgggttca caggctcagg | 360 |
| cagggacagg gctttcctcc ctttcctgga tgtaggaagg cagattccag aagcccga | 420 |
| agaaggcggg cagagctggg cagagccgcc gggaggatcc caggctctga gcgccaggca | 480 |
| cgggcgggcg ggaactggag gtcgcgcggg cggttccaca gctccaggcc gggtcagggc | 540 |
| ggcggctgcg ggggcggccg ggctggggcc tgactgaccg gccggtgatt ccccgagag | 600 |
| gatttcgtgt accagtttaa gggcatgtgc tacttcacca acgggacgga gcgcgtgct | 660 |
| cttgtaacca gacacatcta taaccgagag gactacgcgc gcttcgacag cgacgtggg | 720 |
| gtgtaccggg cgggtgacgc gcaggggagg cctgttgccg agtactggaa cagccagaag | 780 |
| gaagtcctgg agaggacccg ggcggagttg gacacggtgt gcagacacaa ctacgaggtg | 840 |
| gggtaccgcg ggatcctgca gaggagaggt gagcgtcgtc gccctccgt gagcgaccc | 900 |
| ttggccggga ccccgagtct ctgtgccggg agggcgatgg gggcgaggtc tctgaaatct | 960 |
| gagcccagtt cattccaccc cagggaaagg agggcgggc gggggtggtg ggggcagggtg | 1020 |
| catcgagggg gcggggacct agggcagagc agggggacaa gcagagttgg ccaggctgcc | 1080 |
| tagtgcccc ccagcctcc ccgtccgtcg gcctcgtcct ctgctctgga cgtttctcgc | 1140 |
| ctcgtgcctt atgcgtttgc ctctcgtgc cttaccttcg ctaagcagtt ctctctgcc | 1200 |
| ccagtgccca ccctcttccc ctgcccgcg gcctcgttag cactgcccc cccagcaagg | 1260 |
| cccacagttg ccgattcgcc gcaggaagct t | 1291 |

<210> 24
 <211> 1289
 <212> DNA
 <213> Homo sapiens

Sequence Listing - PatentIn.ST25

<220>
 <221> misc_feature
 <222> (448)..(453)
 <223> "N" is an unidentified nucleotide

<400> 24
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 cttcttttcta acacagacgt gagtgaacct cacagggcac ttgggaggggt aaatccaggc 120
 atgggaagga aggtatttta cccagggacc aagagaatag gcgtatcgga agaggacagg 180
 ttttaattcct ggacctgtct cgtcattccc ttgaactgtc aggtttatgt ggataacttt 240
 atctctgagg taccaggagc tccatggaaa atgagatttc atgcgagaac gccctgatcc 300
 ctctaagtgc agaggtccat gtaaaatcag cccgactgcc tcttcacttg gttcacaggc 360
 cgagacaggg acagggcttt cctccctttc ctgcctgtag gaaggccgga tccccgaaga 420
 cccccgagag ggcgggcagg gctggcanan ccnccgggag gatcccaggt ctgcagcgcg 480
 aggcacgggc gggcggaac ttgtggctgc gcgggctgtt ccacagctcc gggccgggtc 540
 aggggtggcg ctgcgggggc ggacgggctg ggccgcactg accggccggt gattccccgc 600
 agaggatttc gtgtaccagt ttaagggcat gtgctacttc accaacggga cagagcgcggt 660
 gcgtcttgtg agcagaagca tctataaccg agaagagatc gtgcgcttcg acagcgacgt 720
 gggggagttc cgggcgggtga cgctgctggg gctgcctgcc gccgagtact ggaacagcca 780
 gaaggacatc ctggagagga aacgggcggc ggtggacagg gtgtgcagac acaactacca 840
 gttggagctc cgcacgacct tgcagcggcg aggtgagcgg cgtcgccctc tgcgaggccc 900
 acccttggcc ccaagtctct gcgccaggag ggggcaaggg tcgtggcctc tgaacctgag 960
 ccccgttggt tccaccccag ggaaaggagg cggcggcggg ggggtgctgg gggctgggtgc 1020
 atcggagggg cagggacctt gggcagagca gggggacagg cagagttggt caagctgcct 1080
 agtttcgccc catcctcccc gtccgtcggc ctcgccctct gctctgcacg ttcttgccctc 1140
 gtgccttatg cgtttgctc ctcgtgcctt acctttacta agcagttctc tctgccccca 1200
 atttcgccc tcttcccttg cccgccgcc cggttagcac tgccgcaccc ggcaaggctc 1260
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<210> 25
 <211> 1307
 <212> DNA
 <213> Homo sapiens

<400> 25
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 tccaacataa aagtgagtga acctcaaagc gcacttgagg agggtaaata taggcatggg 120

Sequence Listing - PatentIn.ST25

| | |
|--|------|
| aagggaggta ttttaccag ggaccaagag aatacgcag tcagaacgag gacaggctta | 180 |
| atttctggac ccgtctcatc attcccttga actcacagggt ttatgtggat aattttatct | 240 |
| ctgaggtttc caggagctca atggaaaatg ggatttcatg cgagagcgcc ctgattccct | 300 |
| ctaagtgcag aggtctatgt aaaatcagcc cgactgcctc ttccctcgggt tcacaggctc | 360 |
| cggcagggac agggctttcc gccctttcct gcctgcagga aggcggattc ccgaagcccc | 420 |
| cagagagggc gggcagggct gggcagagcc gccgggcgga tcacaagtct ggagcgccag | 480 |
| gcacgggcgg gcgggaactg gaggtcgcgc gggcggttcc acagctccgg gccgggtcag | 540 |
| ggcggcggtc gcggggcgcg ccgggctggg gccgggcggg ggcctgactg accggccgggt | 600 |
| gattccccgc agaggatttc gtgtaccagt ttaaggcat gtgctacttc accaacggga | 660 |
| cggagcgct gcgtcttctg accagataca tctataaccg agaggagtac gcacgcttcg | 720 |
| acagcgacgt gggggtgttc cgggcggtga cgccgcaggg gccgcctgcc gccgagtact | 780 |
| ggaacagcca gaaggaaagtc ctggagagga cccgggcgga gttggaacac ggtgtgcaga | 840 |
| cacaactacc agttggagct ccgcacgacc ttgcagcggc gaggtgagcg tcgtcgccc | 900 |
| tccgtgaggc ccatccttgg caggggcccc gagtctctgc cgcgggaggg gcgaaggggg | 960 |
| cgcggcctct ggaaccttga gccttgttca ttccacccc gctgacagga ggaggcgggg | 1020 |
| gtggtggggg caggtgcatc ggaggggcgg ggacctaggg cagagcaggg ggacaagcag | 1080 |
| agttggccag gctgcctagt gtcccccca gcctcctcgt ccgtcggcct cgtcctctgc | 1140 |
| tctggacgtt tctgcctcg tgccttatgc gtttgcctcc tcgtgcctta cttcgcctaa | 1200 |
| gcagttctct ctgccccag tgcccacct cttcccctgc ccgcccgcct cgctagcact | 1260 |
| gccccacca gcaaggccca cagtcgcgca ttcgccgcag gaagctt | 1307 |

<210> 26
 <211> 418
 <212> DNA
 <213> Homo sapiens

| | |
|---|-----|
| <400> 26 | |
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| gagtggcgcc tccgctcatg tccgccccct cccgcagag aattacctt tccagggacg | 120 |
| gcaggaatgc tacgcgttta atgggacaca gcgcttcctg gagagataca tctacaaccg | 180 |
| ggaggagtgc gcgcgcttcg acagcgacgt gggggagtgc cgggcggtga cggagctggg | 240 |
| gcggcctgct gcggagtact ggaacagcca gaaggacatc ctggaggaga agcgggcagt | 300 |
| gccggacagg atgtgcagac acaactacga gctgggcggg cccatgacct tgcagcgccg | 360 |
| aggtgagtga gggctttggg ccggcggtcc cagggcagcc ccgcgggccc gtgcccag | 418 |

<210> 27

Sequence Listing - PatentIn.ST25

<211> 300
<212> DNA
<213> Homo sapiens

<400> 27
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cagcgccttcc tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac 120
gtgggggaggt tccgggcggt gacggagctg gggcggcctg atgaggacta ctggaacagc 180
cagaaggaca tcctggagga ggagcgggca gtgccggaca gggatatgcag acacaactac 240
gagctggacg aggccgtgac cctgcagcgc cgaggtgagt gagggctttg ggccggcggt 300

<210> 28
<211> 300
<212> DNA
<213> Homo sapiens

<400> 28
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cagcgccttcc tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac 120
gtgggggaggt tccgggcggt gacggagctg gggcggcctg atgaggacta ctggaacagc 180
cagaaggacc tcctggagga gaagcgggca gtgccggaca gggatatgcag acacaactac 240
gagctggacg aggccgtgac cctgcagcgc cgaggtgagt gagggctttg ggccggcggt 300

<210> 29
<211> 300
<212> DNA
<213> Homo sapiens

<400> 29
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gtgggggaggt tccgggcggt gacggagctg gggcggcctg ctgcggagta ctggaacagc 180
cagaaggacc tcctggagga gaagcgggca gtgccggaca gggatatgcag acacaactac 240
gagctggacg aggccgtgac cctgcagcgc cgaggtgagt gagggctttg ggccggcggt 300

<210> 30
<211> 23
<212> DNA
<213> Homo sapiens

<400> 30
catgtggcca tcttgagaat gga 23

<210> 31
<211> 24
<212> DNA
<213> Homo sapiens

Sequence Listing - PatentIn.ST25

| | |
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| gcccgggaga tctacaggcg atca | 24 |
| <210> 32 | |
| <211> 21 | |
| <212> DNA | |
| <213> Homo sapiens | |
| <400> 32 | |
| cgctccctg atcgctgta g | 21 |
| <210> 33 | |
| <211> 19 | |
| <212> DNA | |
| <213> Homo sapiens | |
| <400> 33 | |
| ccagagagtg actctgagg | 19 |
| <210> 34 | |
| <211> 14 | |
| <212> DNA | |
| <213> Homo sapiens | |
| <400> 34 | |
| cacaattaag ggat | 14 |
| <210> 35 | |
| <211> 24 | |
| <212> DNA | |
| <213> Homo sapiens | |
| <400> 35 | |
| tccccggcga cctataggag atgg | 24 |
| <210> 36 | |
| <211> 23 | |
| <212> DNA | |
| <213> Homo sapiens | |
| <400> 36 | |
| ctaggaccac ccatgtgacc agc | 23 |
| <210> 37 | |
| <211> 27 | |
| <212> DNA | |
| <213> Homo sapiens | |
| <400> 37 | |
| atctcctcag acgccgagat gcgtcac | 27 |
| <210> 38 | |
| <211> 22 | |
| <212> DNA | |
| <213> Homo sapiens | |

Sequence Listing - PatentIn.ST25

| | | |
|-------------------------------------|--|----|
| <400> 38 | | |
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| <210> 39 | | |
| <211> 25 | | |
| <212> DNA | | |
| <213> Homo sapiens | | |
| <400> 39 | | |
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| <210> 40 | | |
| <211> 32 | | |
| <212> DNA | | |
| <213> Homo sapiens | | |
| <400> 40 | | |
| cgtccaggct ggtgtctggg ttctgtgccc ct | | 32 |
| <210> 41 | | |
| <211> 23 | | |
| <212> DNA | | |
| <213> Homo sapiens | | |
| <400> 41 | | |
| ctggtcacat gggtggtcct agg | | 23 |
| <210> 42 | | |
| <211> 26 | | |
| <212> DNA | | |
| <213> Homo sapiens | | |
| <400> 42 | | |
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| <210> 43 | | |
| <211> 24 | | |
| <212> DNA | | |
| <213> Homo sapiens | | |
| <400> 43 | | |
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| <210> 44 | | |
| <211> 23 | | |
| <212> DNA | | |
| <213> Homo sapiens | | |
| <400> 44 | | |
| aacagcgccc atgtgaccat cct | | 23 |
| <210> 45 | | |
| <211> 27 | | |
| <212> DNA | | |
| <213> Homo sapiens | | |

Sequence Listing - PatentIn.ST25

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| <210> 46 <211> 33 <212> DNA <213> Homo sapiens | |
| <400> 46 cgtctccgca gtcccggttc taaagttccc agt | 33 |
| <210> 47 <211> 18 <212> DNA <213> Homo sapiens | |
| <400> 47 atcctcgtgc tctcggga | 18 |
| <210> 48 <211> 18 <212> DNA <213> Homo sapiens | |
| <400> 48 tgtggtcagg ctgctgac | 18 |
| <210> 49 <211> 18 <212> DNA <213> Homo sapiens | |
| <400> 49 aaggtttgat tccagctt | 18 |
| <210> 50 <211> 40 <212> DNA <213> Homo sapiens | |
| <400> 50 ccccctcccc accccagggtg ttctgtcca ttcttcagga | 40 |
| <210> 51 <211> 24 <212> DNA <213> Homo sapiens | |
| <400> 51 cacatgggcg ctgttgagat gtcg | 24 |
| <210> 52 <211> 22 <212> DNA <213> Homo sapiens | |

Sequence Listing - PatentIn.ST25

| | |
|---|----|
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| <210> 53 <211> 18 <212> DNA <213> Homo sapiens | |
| <400> 53 caccaccgg gactcaga | 18 |
| <210> 54 <211> 22 <212> DNA <213> Homo sapiens | |
| <400> 54 tggccctgac ccagacctgg gc | 22 |
| <210> 55 <211> 21 <212> DNA <213> Homo sapiens | |
| <400> 55 gagggtcggg cgggtctcag c | 21 |
| <210> 56 <211> 16 <212> DNA <213> Homo sapiens | |
| <400> 56 ctctcaggcc ttgttc | 16 |
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Sequence Listing - PatentIn.ST25

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Sequence Listing - PatentIn.ST25

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Sequence Listing - PatentIn.ST25

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